

**USP30 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14725a**

## Specification

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### USP30 Antibody (N-term) - Product Information

Application	IHC-P-Leica, WB,E
Primary Accession	<a href="#">O70CQ3</a>
Other Accession	<a href="#">D3ZPG5</a> , <a href="#">O3UN04</a> , <a href="#">NP_116052.2</a>
Reactivity	Human, Mouse, Rat
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	156-185

### USP30 Antibody (N-term) - Additional Information

**Gene ID** 84749

#### Other Names

Ubiquitin carboxyl-terminal hydrolase 30, Deubiquitinating enzyme 30, Ubiquitin thioesterase 30, Ubiquitin-specific-processing protease 30, Ub-specific protease 30, USP30

#### Target/Specificity

This USP30 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 156-185 amino acids from the N-terminal region of human USP30.

#### Dilution

IHC-P-Leica~~1:500

WB~~1:2000

E~~Use at an assay dependent concentration.

#### Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

USP30 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### USP30 Antibody (N-term) - Protein Information

**Name** USP30 ([HGNC:20065](#))

**Function** Deubiquitinating enzyme tethered to the mitochondrial outer membrane that acts as a key inhibitor of mitophagy by counteracting the action of parkin (PRKN): hydrolyzes ubiquitin attached by parkin on target proteins, such as RHOT1/MIRO1 and TOMM20, thereby blocking parkin's ability to drive mitophagy (PubMed:[18287522](#), PubMed:[24896179](#), PubMed:[25527291](#), PubMed:[25621951](#)). Preferentially cleaves 'Lys-6'- and 'Lys-11'-linked polyubiquitin chains, 2 types of linkage that participate in mitophagic signaling (PubMed:[25621951](#)). Does not cleave efficiently polyubiquitin phosphorylated at 'Ser-65' (PubMed:[25527291](#)). Acts as a negative regulator of mitochondrial fusion by mediating deubiquitination of MFN1 and MFN2 (By similarity).

#### Cellular Location

Mitochondrion outer membrane

#### Tissue Location

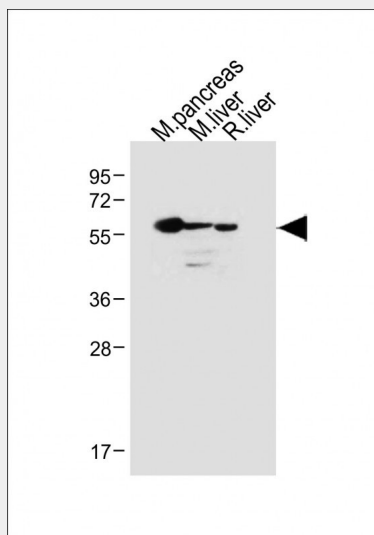
Expressed in skeletal muscle, pancreas, liver and kidney.

### USP30 Antibody (N-term) - Protocols

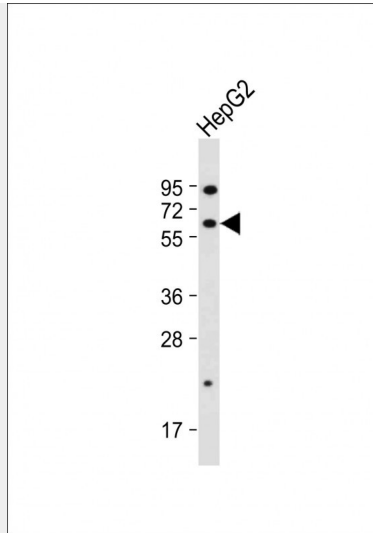
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

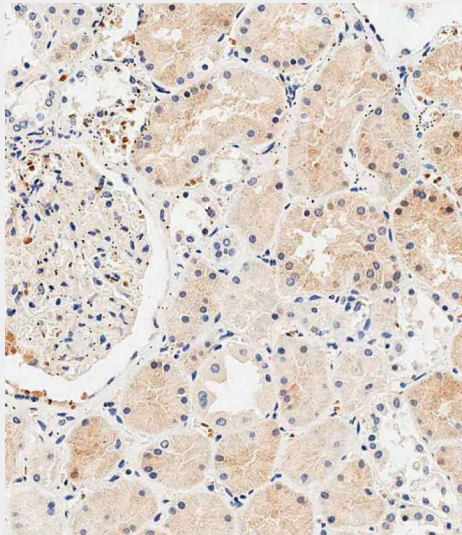
### USP30 Antibody (N-term) - Images



All lanes : Anti-USP30 Antibody (N-term) at 1:500 dilution Lane 1: Mouse pancreas lysate Lane 2: Mouse liver lysate Lane 3: Rat liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 59 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Anti-USP30 Antibody (N-term) at 1:2000 dilution + HepG2 whole cell lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 59 kDa Blocking/Dilution buffer: 5% NFDN/TBST.



Immunohistochemical analysis of paraffin-embedded human kidney tissue using AP14725a performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

### **USP30 Antibody (N-term) - Background**

USP30, a member of the ubiquitin-specific protease family (see USP1, MIM 603478), is a novel mitochondrial deubiquitinating (DUB) enzyme (Nakamura and Hirose, 2008 [PubMed 18287522]).

### **USP30 Antibody (N-term) - References**

- Nakamura, N., et al. Mol. Biol. Cell 19(5):1903-1911(2008)
- Quesada, V., et al. Biochem. Biophys. Res. Commun. 314(1):54-62(2004)
- Puente, X.S., et al. Nat. Rev. Genet. 4(7):544-558(2003)